Atty. Dkt. No. 084335-0134 Appl. Ser. No. 09/806,462

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. (Currently Amended) A method of for preparing a RecA like recombinase/single-stranded RecA/single-stranded nucleic acid probe complex, the method comprising reacting a single-stranded nucleic acid probe sample containing a homologous probe with a RecA-like recombinase RecA in the presence of a nonhydrolyzable nucleotide co factor ATPyS, wherein the number of ATPyS molecules of which is one quarter or more of than the number of molecules of nucleotide residues in the single-stranded nucleic acid probe and 10 5 times or less than the number of RecA molecules of the RecA-like recombinase.
  - 2. (Cancelled).
- 3. (Original) The method of claim 1, wherein the homologous probe is at least two types of homologous probes that are sufficiently complementary to one another.
- 4. (Previously Presented) The method of claim 1, wherein the single-stranded nucleic acid probe sample is a mixture of the homologous probe and at least one type of heterologous probe.
- 5. (Currently Amended) The method of claim 1, wherein the single-stranded nucleic acid probe sample is reacted with the RecA-like recombinese RecA in the presence of 0.5 to 2.0 mM magnesium ions.
- 6. (Currently Amended) The method of claim 1, wherein the RecA-like recombinase RecA is derived from a prokaryote.
- 7. (Currently Amended) The method of claim 1, wherein the RecA like recombinase RecA is derived from Escherichia coli.

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- 8. (Currently Amended) The method of claim 1, wherein the RecA-like recombinase RecA has a label or a ligand.
- 9. (Previously Presented) The method of claim 1, wherein the homologous probe has a label or a ligand.
  - 10.-12. (Cancelled).
- 13. (Previously Presented) The method of claim 8, wherein the label or ligand is biotin or digoxigenin.
  - 14.-23. (Cancelled).
- 24. (Currently Amended) The method of claim 1, wherein the number of nonhydrolyzable nucleotide cofactor molecules is three times or less than the number of ReaA-like recombinase ReaA molecules.